10-1)

m = 0.2 kg
P = 2 × 2.60 = 5.2 sec - The motion described is only one half of a cycle.

Since $P = 2\pi (m/k)^{1/2}$,

$k = 4\pi^2 m/P^2 = 4\pi^2(0.2)/(5.2)^2 =$ 0.29 N/m